

## CLAIMS

1. A headgear assembly, comprising:

(a) an article of headgear; and

(b) an illumination assembly mounted on said  
5 article of headgear and including:

(i) an illumination source mounting  
assembly having a base that is  
attached to and supported by said  
article of headgear and a rotatable  
10 portion being rotatably supported by  
said base, said rotatable portion  
being rotatable about at least one  
axis of rotation; and

(ii) an illumination source supported by  
15 said rotatable portion and having a  
mass of less than 60 grams (weighing  
less than 2.12 ounces).

2. The headgear assembly of claim 1 wherein

20 said article of headgear is a safety helmet.

3. The headgear assembly of claim 2 wherein

said safety helmet is a firefighter's helmet.

25 4. The headgear assembly of claim 2, wherein

said safety helmet includes a visor and wherein said  
illumination assembly is mounted to said visor.

5. The headgear assembly of claim 1 wherein

30 said illumination source is rotatably mounted to said  
rotatable portion and is rotatable relative to said  
rotatable portion about a different axis of rotation than

said axis of rotation of said rotatable portion relative to said base.

6. The headgear assembly of claim 1 wherein  
5 said illumination source has a mass of less than 40 grams  
(weighs less than 1.41 ounces).

7. A headgear assembly, comprising:  
(a) an article of headgear; and  
10 (b) an illumination assembly mounted on said  
article of headgear and including:  
(i) an illumination source mounting  
assembly having a base that is  
attached to and supported by said  
15 article of headgear and a rotatable  
portion being rotatably supported by  
said base, said rotatable portion  
being rotatable about at least one  
axis of rotation; and  
20 (c) an illumination source supported by said  
rotatable portion and having a length of less  
than 6 cm (2.36 in) along its greatest  
dimensional extent.

25 8. The headgear assembly of claim 7 wherein  
said article of headgear is a safety helmet.

9. The headgear assembly of claim 8 wherein  
said safety helmet is a firefighter's helmet.

10. The headgear assembly of claim 8, wherein said safety helmet includes a visor and wherein said illumination assembly is mounted to said visor.

5           11. The headgear assembly of claim 7 wherein said illumination source is rotatably mounted to said rotatable portion and is rotatable relative to said rotatable portion about a different axis of rotation than said axis of rotation of said rotatable portion relative to  
10 said base.

          12. The headgear assembly of claim 7 wherein said illumination source has a length of less than 5 cm (2 in) along its greatest dimensional extent.

15

          13. A method of retrofitting a safety helmet to include a rotatable illumination source, comprising:

- (a) providing a rotatable illumination source assembly having a base; and
- 20           (b) adhering said base to said safety helmet.

          14. The method of claim 13 wherein said base includes an adhesive element adapted to facilitate step (b).

25           15. The method of claim 14 wherein said adhesive element is compressibly deformable, thereby being able to conforming to a non-planar surface.

16. A headgear assembly, comprising:

(a) an article of headgear; and

(b) an illumination assembly mounted on said  
5 article of headgear and including:

(i) an illumination source mounting  
assembly having a base that is  
attached to and supported by said  
article of headgear and a rotatable  
10 portion being rotatably supported by  
said base, said rotatable portion  
being rotatable about at least one  
axis of rotation; and

(ii) an illumination source supported by  
15 said rotatable portion; and

(c) wherein said illumination source assembly  
protrudes no more than 6 cm from the side of  
said article of headgear.

17. A headgear assembly, comprising:

(a) an article of headgear; and

(b) an illumination assembly mounted on said  
5 article of headgear and including:

(i) an illumination source mounting  
assembly having a base that is  
attached to and supported by said  
article of headgear and a rotatable  
10 portion being rotatably supported by  
said base, said rotatable portion  
being rotatable about at least one  
axis of rotation; and

(ii) an illumination source supported by  
15 said rotatable portion; and

(c) wherein said illumination source assembly  
can be angle adjusted without the need to  
loosen any retaining element.

20 18. A method of retrofitting a safety helmet  
having a visor that includes a corner that is hinged to  
said helmet, to include a rotatable illumination source,  
comprising:

(a) providing a rotatable illumination source  
25 assembly having a base that is in the form of  
a clip; and

(b) clipping said base to said corner of said  
visor.